



Senator Carol Liu hosts

## Living Well with Less Water

a forum with Q&A

CALIFORNIA



FARM BUREAU  
FEDERATION

[www.cfbf.com](http://www.cfbf.com)

# How Much Water is in Our Food?

July 24, 2015



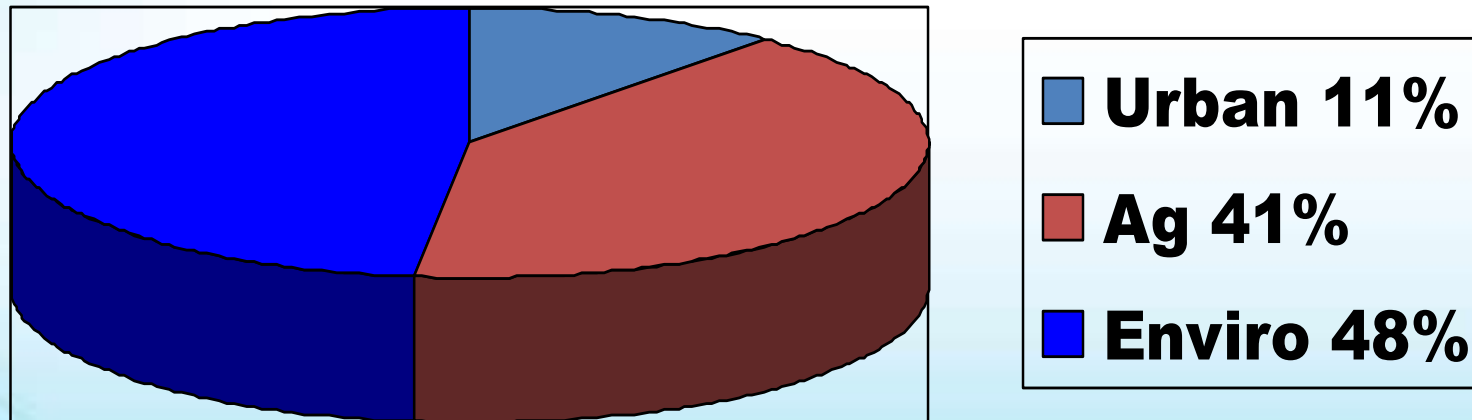
California Farm Bureau Federation

# Small Tomato Growers in 1962



# Water use (Normal year)

Applied water total – 82.5 maf



Environmental water is defined as "...in-stream flows, wild & scenic flows, required Delta outflow and managed wetlands water use."

Source: California Water Plan Update





# State Water Project

**33 lakes/reservoirs**  
**5.8 maf total storage**  
**662 miles canals/pipelines**  
**755,000 irrigated acres**

**3.5 maf at Oroville**  
**770 ft. high**



## Lake Oroville



California Farm Bureau Federation







# Federal Central Valley Project

**22 lakes/reservoirs**  
**11 maf total storage**  
**500 miles canals/pipelines**  
**3 million irrigated acres**

**4.55 maf at Shasta**  
**602 ft. high**



## Lake Shasta



California Farm Bureau Federation
















**Where does the  
largest water  
transfer occur  
every year in  
California???**









BREAKFAST	Gallons of water
One medium orange	14
Two eggs	126
Two slices of toast	22
Two pats of butter	92
One cup of milk	48
One quarter cantaloupe	40
	342 gallons
LUNCH	
Taco Salad (tomato, lettuce, hamburger, chips and cheese)	806
One quarter cantaloupe	40
	846 gallons
SNACK	
One quarter cup of almonds	160
One quarter cup of yogurt	88
One cup of orange juice	49
	297 gallons
DINNER	
Chicken broccoli stir-fry	180
Once cup of rice	50
Two slices of bread	22
Two pats of butter	92
Fruit cup	35
One cup of milk	48
	427 gallons
Total	1,912 gallons



# How Much Water Does It Take?

**39,090 gallons of water are used to manufacture a new car, including tires...**



**2,072 gallons to make the tires**



# How Much Water Does It Take?

101 gallons to make one pound of wool,  
or cotton



900 to gallons to grow the  
cotton for one pair of  
blue jeans, and

400 gallons for the cotton shirt





# How Much Water Does It Take?

**20 gallons per glass of beer**



**32 gallons per glass of wine**



California Farm Bureau Federation

# How Much Water Does It Take?

**36 gallons for one egg**



**60 gallons per serving of corn**



**18 gallons an apple**



**and**

**3 gallons to grow each tomato**





# How Much Water Does It Take?

**616 gallons per 4 oz. hamburger**



**1,232 gallons per 8 oz. steak**



California Farm Bureau Federation

# How Much Water Does It Take?

**37 gallons per cup of coffee**  
(not including the paper cup, or plastic lid)

and

**53 gallons to make a latte**





# How Much Water Does It Take?

**1.85 gallons of water to manufacture  
this plastic bottle!!!**





# California Farmers Produce over 400 Different Crops

## California's Percentage of U.S. Production

<b>Asparagus</b>	<b>48%</b>	<b>Grapes</b>	<b>91%</b>
<b>Avocados</b>	<b>88%</b>	<b>Kiwi Fruit</b>	<b>97%</b>
<b>Broccoli</b>	<b>95%</b>	<b>Lettuce</b>	<b>71%</b>
<b>Carrots</b>	<b>81%</b>	<b>Nectarines</b>	<b>95%</b>
<b>Celery</b>	<b>94%</b>	<b>Plums</b>	<b>97%</b>
<b>Cantaloupe</b>	<b>64%</b>	<b>Strawberries</b>	<b>91%</b>





**California Can Keep Growing Local and  
Healthful Food Supply  
while  
Keeping Our Frogs Smiling**



**Thank you.**



California Farm Bureau Federation

# Questions?

**Danny Merkley**

**Director, Water Resources**

**California Farm Bureau Federation**

**(916) 446-4647**

**[dmerkley@cfbf.com](mailto:dmerkley@cfbf.com)**

